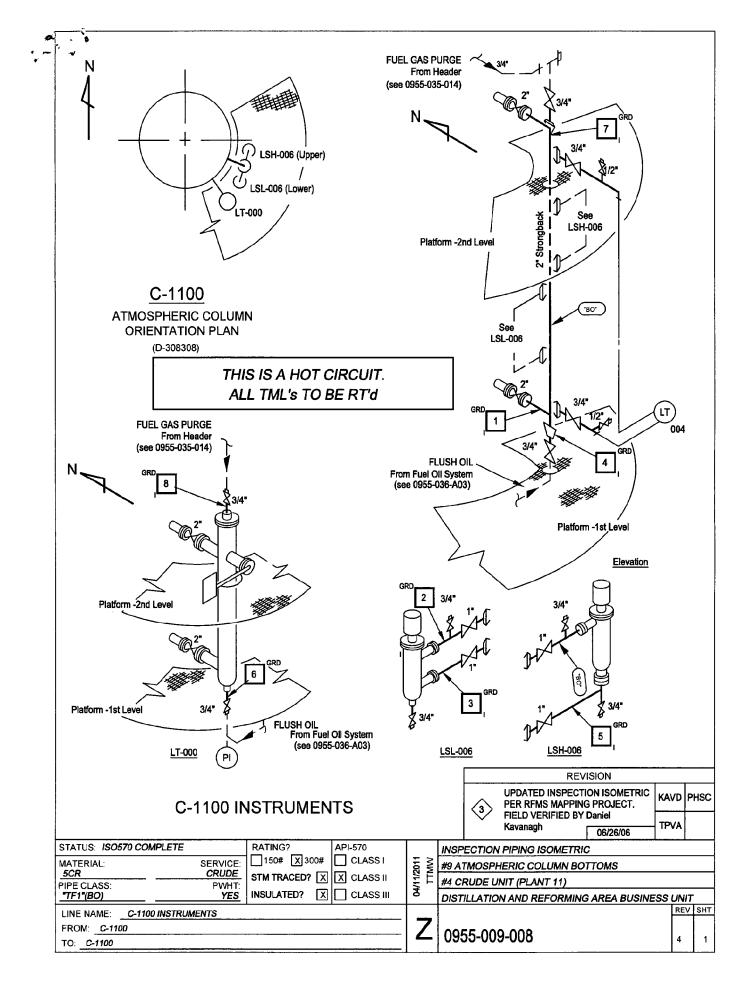
Corrosion Report



| Equipment Location ID Equip. Location Descrip. | | | 0955-009-008 C-1100 LEVEL INSTRUMENTS | | | | | | Remaining Life (Years) Retirement Date Last Inspection Date Next Inspection Date Current Corrosion Rate | | | 8.34 08/07/2019 04/06/2011 06/06/2015 4.80 | | |
|---|------|------|--|------------|----------------|------|------|----------------|---|----------------|-------|--|----------|--|
| DP | MEAS | DP | DP | D T | BASE | MEAS | MEAS | MEAS | NEAR | LAST | MIN | CCR | REM | |
| ID | METH | STAT | SZ | TYPE | | 5 | 4 | 3 | | | VALUE | | LIFE | |
| 001.R | RT | Α | 2.00 | PIPE | 0.160 04/01 | | | 0.170 12/02 | 0.160 03/10 | 0.170 04/11 | 0.100 | 0.00 | ∞ | |
| 002.R | RT | Α | 0.75 | PIPE | 0.180 04/01 | | | 0.180 12/02 | 0.180 12/02 | 0.170 04/11 | 0.100 | 1.20 | 58.33 | |
| 003.R | RT | Α | 0.75 | PIPE | 0.150 04/01 | | | 0.170 12/02 | 0.160 03/10 | 0.170 04/11 | 0.100 | 0.00 | ∞ | |
| 004.R | RT | Α | 0.75 | RED | 0.170 04/01 | - | | 0.170 12/02 | 0.150 03/10 | 0.320 04/11 | 0.100 | 0.00 | ∞ | |
| 005.R | RT | Α | 0.75 | PIPE | 0.180 12/02 | | | | | 0.140 04/11 | 0.100 | 4.80 | 8.34 | |
| 006.R | RT | Α | 0.75 | PIPE | 0.130 04/01 | | | 0.140 12/02 | 0.160 03/10 | 0.160 04/11 | 0.100 | 0.00 | ∞ | |
| 007.R | RT | Α | 2.00 | ELL | 0.150 12/02 | | | | 0.150 08/05 | 0.140 04/11 | 0.100 | 1.78 | 22.45 | |
| 008.R | RT | Α | 0.75 | PIPE | 0.180 12/02 | | | | 0.160 01/08 | 0.160 04/11 | 0.100 | 2.40 | 25.01 | |



History Brief

For Location ID: 0955-009-008 in Unit: 0955



Report Date: August 15, 2012 Data Source: Meridium

Date Available:

History Brief ID:

In- Service Date:

Reference Material:

Incident Event ID:

Inspection Date:

Inspection Type:

Critical:

Brief Data:

Equipment ID:

Date Not Available: 1/15/2007 History Brief Date: 02/26/2007 Event Type: Inspection

0955-009-008 0000110998

Asset ID: Work Order Nbr:

History Type: FXD Asset Type: 221

Cost Center:

Unit:

Event Type: Cause Category:

K.DCRRI00281 0955 - 4 CRUDE UNIT PLT 11

Headline: Fire Damage Assessment/No Damage Detected

Reliability Analysis:

Information

Effect Category: Information

Repair Location: Temporary Repair: No

Save:

Inspection

Program Status:

Maintainable Item: Permanent Repair WO:

Worked Performed By:

Name:

Inspected By:

02/26/2007

01/15/2007 VI-0702169686

01/15/2007

EVI

Chevron Maintenance

Pipe Wall

DANM **DANM**

Findings:

PCA ID: Inspectable: Sub Item:

Part:

Discussion:

Condition: Action:

Location:

Damage Mechanism: PCA Work Order No:

Reliability Comments:

On 1/15/07, the # 4 Crude Unit was in the process of plant clean-up for the planned 1Qtr/07 major T/A. Well after feed was removed and approximately 6 hours into the cleanup, the wash oil piping failed where it ties into the P-1165A discharge spool. The leak immediately flashed and impinged on the East/West overhead pipeway between pipe supports 11J-18.5 and 11J-20.5. The fire also impinged on the tubes of the E-1100 A cells causing structural damage, tube failures and a secondary fire. Once the fire was controlled, the fire continued to burn for approximately 8 hours.

A fire damage assessment team determined the fire zones in accordance the API and MTI guidelines. In general, fire zones 5/6 (800 degF plus) were discovered in a 25 foot circumference surrounding the P-1165A. Fire Zone #4 (400-800 degF) extended approximately 10' beyond zone 5/6. Fire Zone #3 (150-400 degF) extended approximately 20' beyond Fire Zone #4. Fire Zone 2 was the area affected by firewater and pump deluge systems. Fire Zone #1 indicated no damage. Structure, electrical, instrumentation and machinery damage were covered by the representatives from the specific disciplines.

This line was located in fire zone 1-2. Inspection consisted of the following:

1. Visual inspection of the instrument piping with no damaged noted. The inspection was completed by Layne Larsen.

Last Update: August 15, 2012 © 2005 Chevron Corporation

Content Owner: MERCAB

Technical Owner: Dan Buegeleisen

Page 1 of 2

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History Brief

For Location ID: 0955-009-008 in Unit: 0955



Report Date: August 15, 2012 Data Source: Meridium

Date Available:

History Brief ID:

In- Service Date:

Reference Material:

Incident Event ID:

Inspection Date:

Inspection Type:

Critical:

Brief Data:

Date Not Available: 1/1/2006 History Brief Date: 04/02/2012 **Event Type:** Inspection

0955-009-008 **Equipment ID:** 0000110998 Asset ID: Work Order Nbr:

History Type: FXD 221 Asset Type:

Cost Center:

Unit:

0955 - 4 CRUDE UNIT PLT 11

Headline: RFMS CUI PROJECT

K.DCRRI00281

Reliability Analysis:

Inspection **Event Type:** Cause Category: Information

Effect Category: Corrosion

Repair Location: Temporary Repair:

Save:

Worked Performed By: PTS

Program Status:

Maintainable Item:

Permanent Repair WO:

Name: Inspected By: **CSAA CSAA**

Pipe Wall

01/01/2006

01/01/2006

01/01/2006

EVI

VI-1204253765

Findings:

PCA ID: Inspectable: Sub Item:

Discussion:

Part:

Condition: Action: Location:

Damage Mechanism: PCA Work Order No:

Reliability Comments:

X-ray was performed and no CUI was noted. Remaining wall thickness as per OSI data base.

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